

Software Systems Verification and Validation

Assoc. prof. dr. Andreea Vescan Lecture 5: Agile Testing

Babeş-Bolyai University

Cluj-Napoca

2019-2020



Outline

- Agile Testing
 - Video presentations – 10 minutes
 - Session Based Test Management [SBTM]
 - Exploratory testing - 10 min.
 - Ready for rent? - 20 min. activity + 10 min. debriefing
- Beata Lorincz (Project Manager, PhD student)
- Flavia Borodi (Project Manager, PhD student)

Agile Testing

- Video presentations (from 2019)
 - Created by a team
 - Each video ~ 5 minutes
 - Audio + written + visual
 - Send by email the link for your video – 1 day before the presentation
- Team 1
- Team 2 - 3:44
- Team 3 - 5:27
- Team 4

Session Based Test Management [SBTM]

- A method [SBTM] for measuring and managing **exploratory testing**.
- <http://www.satisfice.com/sbtm/>
- <http://www.satisfice.com/articles/sbtm.pdf>
- An approach to testing with:
 - No test cases
 - No expected results
 - No pass/fails metrics
- Testing on a project is divided up into focused “sessions” of exploratory testing.
- A test session
 - A dedicated and uninterrupted period of exploratory testing.
 - Focused on a set objectives defined in a “charter”
 - Generates notes and lightweight reporting on the testing carried out.
 - The testing task is expected to change and evolve.
- **Exploratory testing**
 - Is not random
 - Is creative and requires intelligent thoughts.

Session Based Test Management [SBTM]

- **Planning**
 - Charter: a single sentence that sets the scope of the testing
 - What you will test
 - How you plan to test it
 - The information you hope to provide.
 - That scope should be achieved in 90 minutes.
 - Charter are basis of estimation and coverage.
- **Testing**
 - A dedicated and uninterrupted period of testing (no meetings, no email)
 - Use testing experience or instinct; use your domain knowledge
 - Test scenarios could be ok, but not pre-scripted steps
 - Use the software, observe it and be alert of new questions or test ideas
 - Encourage thinking beyond specific features or tasks in isolation.
 - Fully imagine and describe users of the software
- **Note taking/ Reporting**
 - Not just pass/fail count: What you did. Why you did it. What you saw. What questions and ideas you had. Any frustrations/blocks.

SBTM [SBTM]

- Jonathan Bach – course on Session Bases Test Management
- Example:
 - Applied: Sanity and Survey Testing Focus Writer.
 - Software: Focus Writer.
- **Computed metrics**

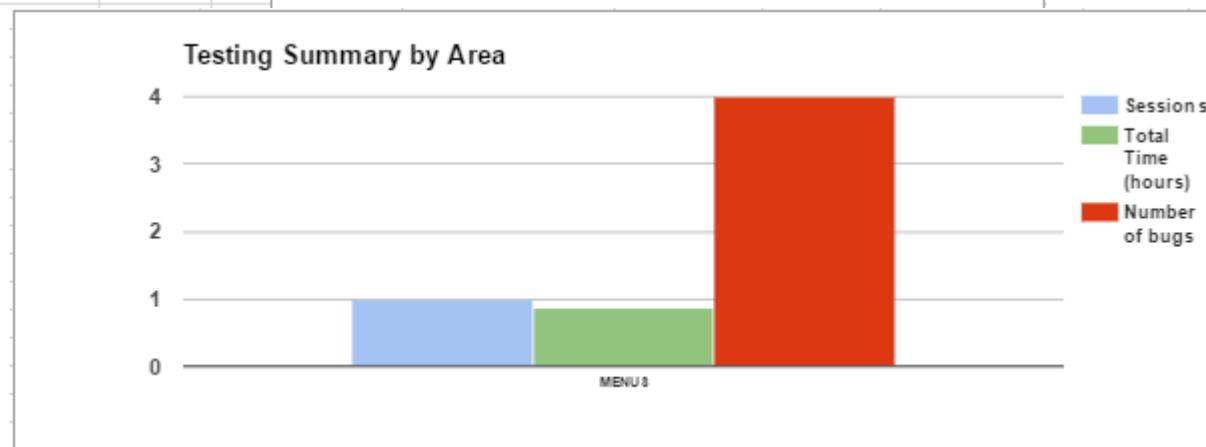
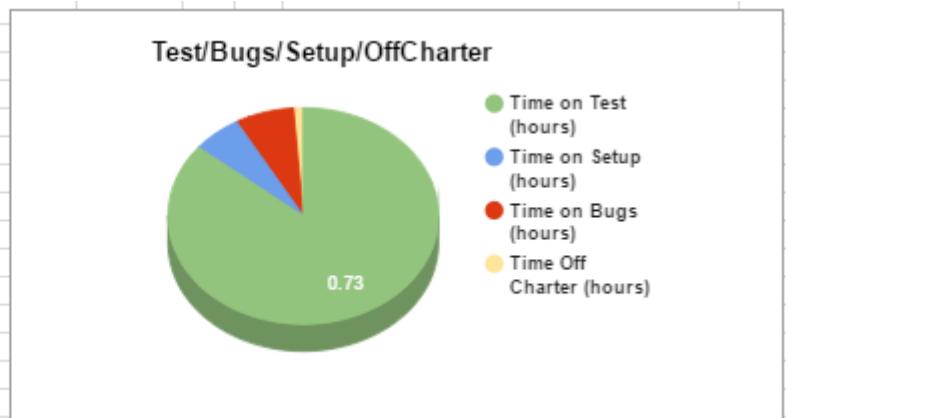
Test
Bug
Setup
OffCharter
Note
Question
NextTime
Data

Session end.Duration		52
Number of bugs		4
Time on Test (mins)		44
Time on Setup (mins)		3
Time on Bugs (mins)		3
Time Off Charter (mins)		1
Number of questions		5
Number of ideas for next time		2
Session Tester	alexandra.casapu@altom.ro	
Session Charter	Perform Sanity Testing and Survey Testing for FocusWriter	
Planned session time (mins)		60
Environment Info	Windows, Product Version: FocusWriter 1.6.2, Mac OSX version 1.6.2, on MacOSX Sierra	
Area	Menus	
Current Active Tag	Test	
Time remaining (mins):		9
Session start	SESSION FNDFDI	

SBTM [SBTM]

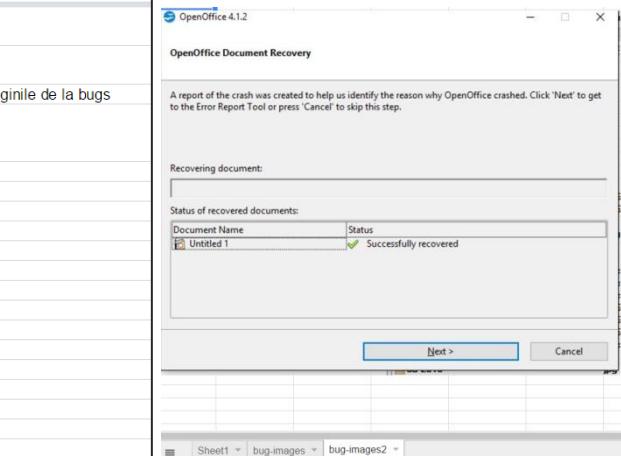
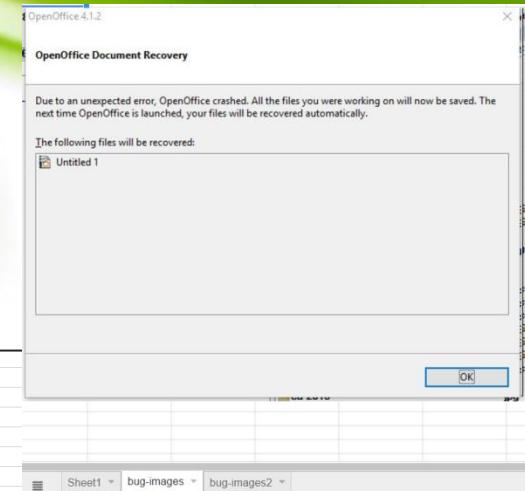
- Jonathan Bach – course on Session Based Test Management [RapidSoftwareTestingCourse_Altom]
- Example:
 - Applied: Sanity and Survey Testing Focus Writer.
 - Software: Focus Writer.

Overall Summary	
Total Sessions	1
Total Time (hours)	0.87
Total Bugs	4
Time on Test (hours)	0.73
Time on Setup (hours)	0.05
Time on Bugs (hours)	0.06
Time Off Charter (hours)	0.01
Total Questions	5
Total Next Time Ideas	2



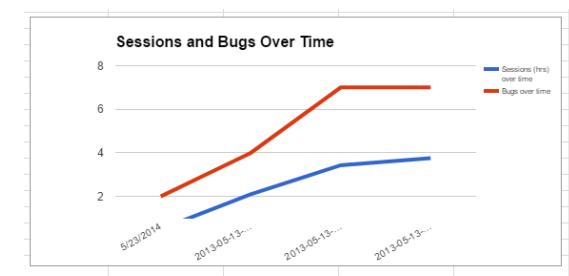
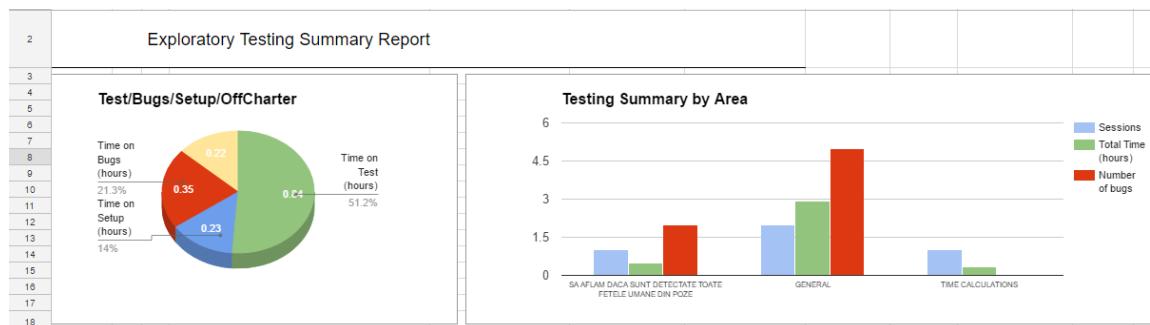
SBTM [SBTM]

- Tabara de testare 2016
 - Example:
 - Software: OpenOfficeImpress.
 - **Computed metrics**



SBTM

- Use SBTM for an open source application
 - **Suggestion:** Use SBTM for your Bachelor Thesis.
- SBTM template available here:
 - <https://altom.com/version-2-1-of-the-sbtm-session-template-was-released/>
 - Instructions how to use the template
 - <https://altom.com/sbtm-with-itester-and-google-drive/>



Session Based Test Management [SBTM]

- **Demo: Session Testing**
 - **Mission: Ready For Rent?**
 - **Time: 20 minute**
 - **Debriefing: PROOF**
 - Past + Results + Outlook + Obstacles + Feeling



[Session Based Test Management](#)

Mission = find "bugs" in the way the house was constructed that make the users (for rent, for buy) to search another house.

Users = Family with 3 kids (2 toddlers + 1 teenager)

Time = 20 minutes

Session Testing

Debriefing	P	R	O	Q	F
	Past	Result	Outlook	Obstacles	Feeling
Initial					
Post-Task					
Post-Debrief					

Outline

- Beata Lorincz (Project Manager, PhD student)
- Flavia Borodi (Project Manager, PhD student)

Agile Teams in real projects

Outline

- Next Lecture
 - 3 April 2020 - Online
 - IT firm Invited Lecture
 - EVOZON
 - Intro to Automation Testing
 - Performance testing
 - Demo

References

- Lisa Crispin, Janet Gregory, **Agile Testing: A Practical Guide for Testers and Agile Teams (Addison-Wesley Signature)**, Addison-Wesley Professional; 1 edition (January 9, 2009)
- Janet Gregory, Lisa Crispin, **More Agile Testing: Learning Journeys for the Whole Team (Addison-Wesley Signature Series (Cohn))** , Addison-Wesley Professional; 1 edition (October 16, 2014)
- [SBTM] Jonathan Bach, **Session Based Test Management**, <http://www.satisfice.com/sbtm/>
<http://www.satisfice.com/articles/sbtm.pdf>

Questions

- Thank You For Your Attention!